Table 4-1. Soil Sample Locations and Testing.

24 41	Northing	Easting	Depth	<b>TO 0</b> 1	2	AUA/70113	\/DII/EDII <sup>4</sup>	0,400 5	Dioxins/	Pest/	Physical Testing <sup>8</sup>	
Station	(ft)	(ft)	(ft bgs)	TOC <sup>1</sup>	Metals <sup>2</sup>	NWTPH <sup>3</sup>	VPH/EPH⁴	SVOCs <sup>5</sup>	Furans <sup>6</sup>	PCBs <sup>7</sup>		Archive
TP-1			0-1	$\checkmark$	$\checkmark$	DRO/GRO					$\checkmark$	✓
			1-2									✓
			2-3								✓	✓
		-]	Bottom									✓
TP-2			0-1	$\checkmark$	$\checkmark$	DRO/GRO					$\checkmark$	✓
	DE	<del>ا</del>	1-2									✓
		_	2-3								$\checkmark$	✓
			Bottom									✓
TP-3	6	5	0-1	$\checkmark$	$\checkmark$	DRO/GRO					$\checkmark$	✓
	~	<b>4</b>	1-2									$\checkmark$
	F	=	2-3								$\checkmark$	✓
	INOVIDED	Ħ,	Bottom									✓
TP-4			0-1	$\checkmark$	$\checkmark$	DRO					$\checkmark$	✓
	-		1-2			20						✓
			2-3								✓	✓
	FINAL		Bottom									✓
TP-5	<b>4</b>	4	0-1	$\checkmark$	$\checkmark$	DRO					✓	✓
117-5		_	1-2	•	•	DRO					•	· ✓
											✓	<b>√</b>
	IAC	>	2-3								V	<b>∨</b> ✓
<b>TD</b> 0	_	J	Bottom		,	550						
TP-6			0-1	$\checkmark$	$\checkmark$	DRO					$\checkmark$	<b>√</b>
			1-2								,	<b>√</b>
			2-3								$\checkmark$	✓
			Bottom									✓

Table 4-1. Soil Sample Locations and Testing. (continued)

Station	Northing (ft)	Easting (ft)	Depth (ft bgs)	TOC1	Metals <sup>2</sup>	NWTPH <sup>3</sup>	VPH/EPH <sup>4</sup>	SVOCs <sup>5</sup>	Dioxins/ Furans <sup>6</sup>	Pest/ PCBs <sup>7</sup>	Physical Testing <sup>8</sup>	Archive
TP-7			0-1	✓	✓	DRO					<b>√</b>	✓
			1-2									✓
			2-3								$\checkmark$	$\checkmark$
			Bottom									$\checkmark$
TP-8	-	<b>-</b>	0-1	$\checkmark$	$\checkmark$	DRO					$\checkmark$	$\checkmark$
		JO	1-2									$\checkmark$
		<b>교</b> 기	2-3								$\checkmark$	$\checkmark$
			Bottom									$\checkmark$
TP-9	-	PROVIDED	0-1	$\checkmark$	$\checkmark$	DRO/GRO					$\checkmark$	$\checkmark$
	Ć		1-2									$\checkmark$
	4	≤	2-3								$\checkmark$	$\checkmark$
	į	J	Bottom									$\checkmark$
TP-10	ļ	<u> </u>	0-1	$\checkmark$	$\checkmark$	DRO					✓	✓
			1-2								,	<b>√</b>
	5	Z	2-3								$\checkmark$	<b>√</b>
	<b>H</b>	I	Bottom	,								<b>√</b>
TP-11	-	IN FIN AI	0-1	$\checkmark$	✓	DRO					✓	<b>√</b>
			1-2								✓	✓ ✓
			2-3								V	<b>∨</b> ✓
TP-12		SAP	Bottom	<b>√</b>	✓	DRO					✓	<b>∨</b> ✓
17-12	-	J	0-1 1-2	•	<b>v</b>	טאט					•	<b>∨</b> ✓
			1-2 2-3								✓	<b>√</b>
			2-3 Bottom								•	<b>√</b>

Table 4-1. Soil Sample Locations and Testing. (continued)

Station	Northing (ft)	Easting (ft)	Depth (ft bgs)	TOC <sup>1</sup>	Metals <sup>2</sup>	NWTPH <sup>3</sup>	VPH/EPH⁴	SVOCs <sup>5</sup>	Dioxins/ Furans <sup>6</sup>	Pest/ PCBs <sup>7</sup>	Physical Testing <sup>8</sup>	Archive
HA-1		<b>-</b>	0-1	✓	✓	DRO				✓	✓	✓
		TO	1-2									$\checkmark$
HA-2		BE	0-1	$\checkmark$	$\checkmark$	DRO				$\checkmark$	$\checkmark$	$\checkmark$
			1-2									$\checkmark$
HA-3		PROVIDED	0-1	$\checkmark$	$\checkmark$	DRO				$\checkmark$	$\checkmark$	$\checkmark$
		<b>V</b>	1-2									$\checkmark$
HA-4		Ħ	0-1	$\checkmark$	$\checkmark$	DRO				$\checkmark$	$\checkmark$	$\checkmark$
		Ė	1-2									$\checkmark$
HA-5			0-1	$\checkmark$	$\checkmark$	DRO				$\checkmark$	$\checkmark$	$\checkmark$
		Z	1-2									$\checkmark$
HA-6		IN FINAL	0-1	$\checkmark$	✓	DRO				$\checkmark$	✓	$\checkmark$
		Z	1-2									$\checkmark$
HA-7			0-1	$\checkmark$	✓	DRO					✓	$\checkmark$
		SAP	1-2									$\checkmark$
HA-8		P	0-1	$\checkmark$	✓	DRO					✓	$\checkmark$
			1-2									$\checkmark$
Background	TBD	TBD	0-1	$\checkmark$	$\checkmark$	GRO/DRO	✓	$\checkmark$	✓	✓	$\checkmark$	$\checkmark$
Total Samples				21	21	21	≤21 <sup>9</sup>	≤21 <sup>9</sup>	≤21 <sup>9</sup>	7	33	65

Total organic carbon will be analyzed for all 0-1 ft soil samples by EPA Method SW 9060 Modified (Ecology).

Note: Field duplicate samples will be collected at a frequency of 1 per 20 field samples. Equipment rinse blank samples will be collected once per sampling method.

<sup>&</sup>lt;sup>2</sup> Metals analysis will include arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, zinc (EPA Methods 6010/7471A).

<sup>3</sup> NWTPH analysis (Ecology 1997) will include both gasoline-range hydrocarbons (GRO) and diesel-range hydrocarbons (DRO) except where indicated.

<sup>&</sup>lt;sup>4</sup> VPH/EPH petroleum fractionated analysis (Ecology 1997) will be analyzed for selected samples exceeding GRO/DRO SL's or, at a minimum, 20 percent of total samples analyzed.

<sup>&</sup>lt;sup>5</sup> SVOCs will be analyzed for samples exceeding GRO/DRO SL's or, at a minimum, 20 percent of total samples analyzed for confirmation purposes (EPA Method SW 8270C low levels).

<sup>&</sup>lt;sup>6</sup> Dioxins/Furans will be analyzed by EPA Method 1613B for samples with PCP concentrations exceeding SL.

<sup>&</sup>lt;sup>7</sup> Chlorinated Pesticides/PCBs will be analyzed by EPA Method SW 8081/8082 for soil samples collected to evaluate BNSF.

Physical testing will include grain size (ASTM D 422-63 w/hydrometer), Atterburg limits (ASTM D 4318-00), Specific Gravity (ASTM 854-02), and moisture content (ASTM 2216).

<sup>&</sup>lt;sup>9</sup> Sample total is dependent on the number of samples exceeding SL's, with a minimum of 20 percent site samples analyzed for SVOCs and VPH/EPH.

Table 4-2. Groundwater Sampling Locations and Testing (Each Sampling Cycle).

Station	Northing (ft)	Easting (ft)	Conventional Testing <sup>1</sup>	Metals <sup>2</sup>	NWTPH <sup>3</sup>	SVOCs <sup>4</sup>	Dioxins/ Furans⁵
MWLSC01			✓	✓	GRO/DRO	✓	✓
MWLSC02			$\checkmark$	$\checkmark$	GRO/DRO	$\checkmark$	$\checkmark$
MWLSC03	TO RE PR	OVIDED IN	$\checkmark$	$\checkmark$	GRO/DRO	$\checkmark$	$\checkmark$
MW06D		AL SAP	$\checkmark$	$\checkmark$	GRO/DRO	$\checkmark$	$\checkmark$
Total			4	4	4	4	4
Samples							

Note: Field duplicate samples will be collected at a frequency of 1 per 20 field samples. Equipment rinse blank samples will be collected once per sampling method.

<sup>&</sup>lt;sup>1</sup> Conventional testing will include TOC (EPA Method 415.1), TSS (EPA Method 160.2), and Hardness (SM 2340B).

Metals analysis will include arsenic, cadmium, calcium, chromium, copper, lead, magnesium, mercury, nickel, silver, zinc (EPA Methods 200.8/6010B/7470).

NWTPH analysis (Ecology 1997) will include both gasoline-range (GRO) and diesel-range (DRO) hydrocarbons. VPH/EPH petroleum fractionated analysis (Ecology 1997) will be analyzed for all samples exceeding GRO/DRO SLs.

SVOCs will be analyzed by EPA Method SW 8270C low levels for comparison to State Surface Water Quality Criteria.

<sup>&</sup>lt;sup>5</sup> Dioxins/Furans will be analyzed by EPA Method 1613B.

Table 4-3. Surface Water Sampling Locations and Testing (Each Sampling Cycle).

Station	Northing (ft)	Easting (ft)	Conventional Testing <sup>1</sup>	Metals <sup>2</sup>	NWTPH <sup>3</sup>	SVOCs <sup>4</sup>	Dioxins/ Furans⁵
SW01			✓	✓	GRO/DRO	✓	
SW04			$\checkmark$	$\checkmark$	GRO/DRO	✓	
SW05			$\checkmark$	$\checkmark$	GRO/DRO	✓	✓
SW06	TO RE PR	OVIDED IN	✓	$\checkmark$	GRO/DRO	✓	$\checkmark$
SW07		AL SAP	$\checkmark$	$\checkmark$	GRO/DRO	$\checkmark$	
SW09			✓	$\checkmark$	GRO/DRO	✓	
Background			✓	$\checkmark$	GRO/DRO	✓	$\checkmark$
Total			7	7	7	7	3
Samples							

<sup>&</sup>lt;sup>1</sup> Conventional testing will include TOC (EPA Method 415.1), TSS (EPA Method 160.2), and Hardness (SM 2340B).

Note: Field duplicate samples will be collected at a frequency of 1 per 20 field samples. Equipment rinse blank samples will be collected once per sampling method.

<sup>&</sup>lt;sup>2</sup> Metals analysis will include arsenic, cadmium, calcium, chromium, copper, lead, magnesium, mercury, nickel, silver, zinc (EPA Methods 200.8/6010B/7470).

NWTPH analysis (Ecology 1997) will include both gasoline-range (GRO) and diesel-range (DRO) hydrocarbons. VPH/EPH petroleum fractionated analysis (Ecology 1997) will be analyzed for all samples exceeding GRO/DRO SLs.

<sup>&</sup>lt;sup>4</sup> SVOCs will be analyzed by EPA Method SW 8270c low levels for comparison to State Surface Water Quality Criteria.

<sup>&</sup>lt;sup>5</sup> Dioxins/Furans will be analyzed by EPA Method 1613B.

Table 4-4. Sediment Sample Locations and Testing.

Station	Northing (ft)	Easting (ft)	Depth (ft bgs)	Metals <sup>1</sup>	NWTPH <sup>2</sup>	VPH/EPH <sup>3</sup>	SVOCs <sup>4</sup>	Dioxins/ Furans⁵	Conventional Testing <sup>6</sup>	Physical Testing <sup>7</sup>	Bioassays	Archive
SB-1			0-1	✓	DRO				✓	<b>√</b>		✓
			1-2									$\checkmark$
		]	2-3							$\checkmark$		$\checkmark$
			3-4									$\checkmark$
	BE	1	4-5									$\checkmark$
SB-2			0-1	$\checkmark$	DRO				$\checkmark$	$\checkmark$		✓
	PKO	<b>)</b>	1-2									<b>√</b>
	~	1	2-3							✓		<b>√</b>
	VIDED	•	3-4									<b>√</b>
	Ē		4-5						,			<b>V</b>
SB-3			0-1	$\checkmark$	DRO				✓	$\checkmark$		<b>V</b>
	Z		1-2									<b>V</b>
	HNAL		2-3									<b>v</b>
	Z	1	3-4									<b>v</b>
SB-4		•	4-5 0-1	✓	DRO				✓	✓		<b>,</b>
3D-4	5/		1-2	•	טאט				•	•		· ✓
	SAP		2-3							✓		✓
			2-3 3-4							•		✓
			3-4 4-5									✓

			Depth			_						
Station	Northing	Easting	(ft	Metals <sup>1</sup>	NWTPH <sup>2</sup>	VPH/EPH <sup>3</sup>	SVOCs4	Dioxins/	Conventional	Physical	Bioassays	Archive
	(ft)	(ft)	bgs)					Furans <sup>5</sup>	Testing <sup>6</sup>	Testing <sup>7</sup>	0	
SB-5			0-1	$\checkmark$	DRO				<b>√</b>	$\checkmark$		$\checkmark$
			1-2									$\checkmark$
			2-3							$\checkmark$		$\checkmark$
			3-4									$\checkmark$
			4-5									$\checkmark$
SB-6		TO	0-1	$\checkmark$	DRO				$\checkmark$	$\checkmark$		$\checkmark$
		)	1-2									$\checkmark$
		3E	2-3									$\checkmark$
		P	3-4									$\checkmark$
		~	4-5									$\checkmark$
SB-7		$\preceq$	0-1	$\checkmark$	DRO				$\checkmark$	$\checkmark$		$\checkmark$
		BE PROVIDED	1-2									$\checkmark$
		Ē	2-3							$\checkmark$		$\checkmark$
		$\subseteq$	3-4									$\checkmark$
		$\Xi$	4-5									$\checkmark$
SB-8		IN FINAL	0-1	$\checkmark$	DRO				$\checkmark$	$\checkmark$		$\checkmark$
		Z	1-2									$\checkmark$
		A	2-3							$\checkmark$		$\checkmark$
		$\mathbf{c}$	3-4									$\checkmark$
		SAP	4-5									$\checkmark$
SB-9			0-1	$\checkmark$	DRO				$\checkmark$	$\checkmark$		$\checkmark$
			1-2									$\checkmark$
			2-3									$\checkmark$
			3-4									$\checkmark$
			4-5									$\checkmark$

Station	Northing (ft)	Easting (ft)	Depth (ft bgs)	Metals <sup>1</sup>	NWTPH <sup>2</sup>	VPH/EPH <sup>3</sup>	SVOCs <sup>4</sup>	Dioxins/ Furans⁵	Conventional Testing <sup>6</sup>	Physical Testing <sup>7</sup>	Bioassays 8	Archive
SB-10			0-1	✓	DRO				✓	✓		<b>√</b>
			1-2									$\checkmark$
			2-3							$\checkmark$		$\checkmark$
			3-4									$\checkmark$
			4-5									$\checkmark$
SB-11		<del>-</del> ]	0-1	$\checkmark$	DRO				$\checkmark$	$\checkmark$		$\checkmark$
		TO	1-2									$\checkmark$
		BE PROVIDED	2-3									$\checkmark$
		P	3-4									$\checkmark$
		R	4-5									$\checkmark$
SB-12		7	0-1	$\checkmark$	DRO				$\checkmark$	$\checkmark$		$\checkmark$
		ì	1-2									$\checkmark$
		Œ	2-3							$\checkmark$		$\checkmark$
			3-4									$\checkmark$
		ラ	4-5									$\checkmark$
SB-13			0-1	$\checkmark$	DRO				$\checkmark$	$\checkmark$		$\checkmark$
		<b>2</b>	1-2									$\checkmark$
		IN FINAL	2-3									$\checkmark$
		( <b>v</b> )	3-4									$\checkmark$
		SAP	4-5									$\checkmark$
SB-14		P	0-1	$\checkmark$	DRO				$\checkmark$	$\checkmark$		✓
			1-2									✓
			2-3							$\checkmark$		$\checkmark$
			3-4									$\checkmark$
			4-5									$\checkmark$

Station	Northing	Eastin	Depth (ft	Metal s <sup>1</sup>	NWTPH <sup>2</sup>	VPH/EPH <sup>3</sup>	SVOCs <sup>4</sup>	Dioxins/ Furans⁵	Conventional	Physical	Bioassays	Archive
	(ft)	g (ft)	bgs)	S				Furans⁵	Testing <sup>6</sup>	Testing <sup>7</sup>	8	
SB-15			0-1	$\checkmark$	DRO				<b>√</b>	$\checkmark$		✓
			1-2									$\checkmark$
			2-3							$\checkmark$		✓
	-	-	3-4									<b>√</b>
		5	4-5	,					,	,		<b>√</b>
SB-16	5	<del>.</del>	0-1	$\checkmark$	DRO				✓	$\checkmark$		<b>√</b>
	<u> </u>	R PROVIDED IN FINAL SAP	1-2									<b>√</b>
		2	2-3									<b>√</b>
	E	Ì	3-4									<b>√</b>
00.45		J Ħ	4-5	,	556					,		<b>√</b>
SB-17	t	j	0-1	$\checkmark$	DRO				✓	$\checkmark$		<b>V</b>
	-		1-2							,		<b>v</b>
	Ē		2-3							✓		<b>V</b>
		2	3-4									<b>v</b>
CD 40		<b>&gt;</b>	4-5	$\checkmark$	DDO				✓	✓		· /
SB-18		v	0-1	V	DRO				V	V		· · · · · · · · · · · · · · · · · · ·
	2	<b>&gt;</b>	1-2 2-3									./
		•	2-3 3-4									<b>,</b>
			3-4 4-5									<b>,</b>
SB-19			4-5 0-1	$\checkmark$	DRO				✓	✓		<b>√</b>
OD-19			1-2	•	DICO					•		✓
			2-3							✓		· ✓
			3-4							•		✓
			3- <del>4</del> 4-5									✓

Station	Northing	Eastin	Depth (ft	Metal s <sup>1</sup>	NWTPH <sup>2</sup>	VPH/EPH <sup>3</sup>	SVOCs <sup>4</sup>	Dioxins/ Furans⁵	Conventional Testing <sup>6</sup>	Physical	Bioassays	Archive
00.00	(ft)	g (ft)	bgs)					Furans	resting	Testing <sup>7</sup>		
SB-20			0-1	$\checkmark$	DRO				✓	<b>V</b>		<b>√</b>
			1-2							/		<b>v</b>
			2-3							<b>v</b>		<b>v</b>
			3-4									<b>v</b>
CD 04			4-5	<b>√</b>	DDO				✓	$\checkmark$		<b>v</b>
SB-21	<b>_</b>	1	0-1 1-2	V	DRO				•	V		<b>v</b>
	C	Ó	2-3									<b>v</b>
	В	1	2-3 3-4									<b>,</b>
	-		3-4 4-5									·
SB-22	~	<b>5</b>	0-1	✓	DRO				✓	$\checkmark$		· ✓
OD ZZ	TO BE PROVIDED IN HINAL SAP		1-2		DITO							$\checkmark$
	E	•	2-3							✓		$\checkmark$
	Ē		3-4									✓
	1	•	4-5									$\checkmark$
SB-23	Z	• •	0-1	$\checkmark$	DRO				$\checkmark$	$\checkmark$		$\checkmark$
			1-2									$\checkmark$
	Z	<b>-</b>	2-3									$\checkmark$
	F	4	3-4									$\checkmark$
	SA	) •	4-5									$\checkmark$
SB-24	F	<b>.</b>	0-1	$\checkmark$	DRO				$\checkmark$	$\checkmark$		$\checkmark$
			1-2									$\checkmark$
			2-3							$\checkmark$		$\checkmark$
			3-4									$\checkmark$
			4-5									✓
LSC-07			0-0.3	$\checkmark$	DRO				✓*	$\checkmark$		$\checkmark$

Table 4-4. Sediment Sample Locations and Testing. (continued)

Station	Northing (ft)	Eastin g (ft)	Depth (ft bgs)	Metal s <sup>1</sup>	NWTPH <sup>2</sup>	VPH/EPH <sup>3</sup>	SVOCs <sup>4</sup>	Dioxins/ Furans⁵	Conventional Testing <sup>6</sup>	Physical Testing <sup>7</sup>	Bioassays 8	Archive
LSC-08			0-0.3	✓	DRO				√*	✓		✓
LSC-09			0-0.3	$\checkmark$	DRO				<b>√</b> *	$\checkmark$		$\checkmark$
LSC-10			0-0.3	$\checkmark$	DRO				<b>√</b> *	$\checkmark$		$\checkmark$
LSC-11			0-0.3	$\checkmark$	DRO				<b>√</b> *	$\checkmark$		$\checkmark$
LSC-12			0-0.3	$\checkmark$	DRO				✓*	$\checkmark$		$\checkmark$
Background			0-0.3	$\checkmark$	DRO	$\checkmark$	$\checkmark$	$\checkmark$	<b>√</b> *	$\checkmark$		$\checkmark$
Total Samples				31	31	≤31 <sup>9</sup>	≤31 <sup>9</sup>	≤31 <sup>9</sup>	31	46	≤7 <sup>10</sup>	127

<sup>&</sup>lt;sup>1</sup> Metals analysis will include arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, zinc (EPA Methods SW 6010/7471A).

Note: Field duplicate samples will be collected at a frequency of 1 per 20 field samples. Equipment rinse blank samples will be collected once per sampling method.

NWTPH analysis (Ecology 1997) will include both gasoline-range (GRO) and diesel-range (DRO) hydrocarbons except where indicated.

<sup>&</sup>lt;sup>3</sup> VPH/EPH petroleum fractionated analysis (Ecology 1997) will be analyzed for selected samples exceeding GRO/DRO SL's or, at a minimum, 20 percent of total samples analyzed.

<sup>&</sup>lt;sup>4</sup> SVOCs will be analyzed for samples exceeding GRO/DRO SL's or, at a minimum, 20 percent of total samples analyzed for confirmation purposes (EPA Method SW 8270C low levels).

<sup>&</sup>lt;sup>5</sup> Dioxins/Furans will be analyzed by EPA Method 1613B for samples with PCP concentrations exceeding SL.

<sup>&</sup>lt;sup>6</sup> Total organic carbon will be analyzed by EPA Method SW 9060 modified for sediment analysis. Samples (✓\*) planned for bioassay testing will also be analyzed for total solids (PSEP 1986), ammonia (Plumb 1981/EPA Method 350.1) and total sulfides (PSEP 1986/EPA 376.2).

Physical testing will include grain size (ASTM D 422-63 w/hydrometer), Atterburg limits (ASTM D 4318-00), Specific Gravity (ASTM 854-02), and moisture content (ASTM 2216).

<sup>&</sup>lt;sup>8</sup> Bioassay testing will include the 10-day Amphipod (*Hyalella azteca*), Micortox Porewater (*Vibrio fischeri*), and 21-day Midge Larvae (*Chironomus tentans*).

<sup>&</sup>lt;sup>9</sup> Sample total is dependent on the number of samples exceeding SL's, with a minimum of 20 percent site samples analyzed for SVOCs and EPH.

<sup>10</sup> LSC-07 through LSC-12 will be chemically analyzed first and compared to SL's. If samples exceed chemical SL's, bioassay testing will be conducted on those samples along with appropriate reference sediment.